

Dec 10, 1964

Martin Luther King Jr. received
the Nobel Peace Prize during
ceremonies in Oslo, Norway.

Nov. 21, 1964

New York's Verrazano Narrows
Bridge opened.

Nov 28, 1964

The United States launched
the space probe Mariner 4
on a course to Mars.

1964

While NIKITA KHRUSHCHEV
was vacationing in a palatial
home, he learned he had
been booted into the Cesh Cen
of history by his friends
in the Politburo

Aug. 20, 1964

Pres. Lyndon Johnson signed
a nearly \$1 billion anti-poverty
measure.

Nov. 3, 1964

Pres. Lyndon Johnson
soundly defeated
Republican challenger
Barry Goldwater to win
a White House term in
his own right.

Oct 16, 1964

China detonated the first
atomic bomb.

Oct 14, 1964

Civil rights leader Martin
Luther King Jr. was named
winner of the Nobel Peace
Prize.

Oct 12, 1964

The Soviet Union launched a Voshod space capsule with a three-man crew on the first manned mission involving more than 1.0 crew member

Jan 8, 1964

Pres. Lyndon Johnson declared
a "War on Poverty".

Jan. 23, 1964

The 24th Amendment to the Constitution eliminating the poll tax in federal elections, was ratified.

Jan. 16, 1964

The musical "Hello Dolly!"
opened on Broadway, beginning
a run of 2,844 performances.

Jan 9, 1964

Anti-U.S. rioting broke out
in the Panama Canal Zone
resulting in the deaths of 21
Panamanians and 3 U.S. soldiers

Jan 12, 1964

Leftist rebels in Tanzania began
their successful revolt
against the government

Jan. 8, 1964

Pres. Johnson declared a "War
on Poverty."

June 19, 1964

The Civil Rights Act of 1964 was
approved after surviving an
83-day Senate filibuster.

June 10, 1964

The Senate voted to limit further debate on a proposed civil rights bill, shutting off a filibuster by Southern states.

June 21, 1964

Civil rights workers Michael H. Schwerner, Andrew Goodman and James E. Chaney disappeared in Philadelphia, Miss.; their bodies were found buried in an earthen dam, six weeks later.

May 27, 1964

Independent India's first
prime minister Jawaharlal
Nehru died.

Jan 9, 1964

Anti-U.S. rioting broke out
in the Panama Canal Zone,
resulting in the deaths of
21 Panamanians and 3 U.S.
soldiers.

Nov 21, 1964

New York's Verrazano Narrows
Bridge was opened.

Sept 27, 1964

the Warren Commission issued
a report concluding that
Lee Harvey Oswald had
acted alone in assassinating
President Kennedy.

Feb 17, 1964

The Supreme Court ruled that congressional districts within each state had to be roughly equal in population

Apr 26, 1964

The African nations of TANGANYIKA
and ZANZIBAR merged to form
TANZANIA.

Apr 23, 1964

Pres Lyndon Johnson opened the
New York World's Fair.

May 19, 1964

The State Dept. disclosed that
40 hidden microphones had been
found in the U.S. embassy
in Moscow.

Feb 17, 1964

The Supreme Court ruled that congressional districts within each state had to be roughly equal in population

Apr 5, 1964

Army Gen. Douglas MacArthur
Died in Washington. Aged 84.

Apr 13, 1964

Sidney Poitier became the first
black performer in a leading role
to win an Academy Award
for "~~Little~~ "Lilies of the Field".

Jan 23, 1964

The 24th amendment to the
constitution eliminating the
poll tax in federal elections
was ratified

Mar 27, 1964

Alaska experienced a powerful
earthquake that killed 114 people

Apr 26, 1964

The African nations of Tanganyika
and Zanzibar merged to
form Tanzania

Apr 17, 1964

Ford Motor Co. unveiled its
new Mustang.

Apr 17, 1964

Jessie Mock of Columbus, Ohio,
became the first woman
to complete a solo airplane
flight around the world.

Apr 13, 1964

Sidney Poitier became the first
black performer in a leading
role to win an Academy
Award for "Lilies of the Field."

Apr. 5, 1964

Army Gen. Douglas Mac Arthur
died in Washington at age 84

Mar 14, 1964

A jury in Dallas found Jack Ruby
guilty of murdering Lee Harvey
Oswald, the accused assassin
of Pres. Kennedy.

Mar 13, 1964

In a notorious Case, 38 residents of a New York neighborhood failed to respond to the cries of Kitty Genovese, 28, as she was being stabbed to death.

Dec 28, 1964

Queen Mary II of England died
after 5-yrs of joint rule with
her husband King William III.

Aug. 7, 1964

Congress passed the Gulf of
Tonkin resolution giving Pres.
Lyndon Johnson broad powers
in dealing with reported
Vietnamese attacks on U.S. forces.

Aug 2, 1964

The Pentagon reported the series of 2 attacks on U.S. destroyers by North Vietnamese torpedo boats in the Gulf of Tonkin.

Aug 4, 1964

The bodies of missing civil rights workers, Michael H. Schwerner, Andrew Goodman, and James E. Chaney were found buried in an earthen dam in Mississippi.

July 31, 1964

The American space probe Ranger 7
transmitted pictures of the moon's
surface.

July 26, 1964

Teamsters president Jimmy Hoffa and others were convicted of fraud and conspiracy in the handling of a union pension fund.

Nov 28, 1964

The U.S. launched the space probe
Mariner 4 on a course to
Mars.

Jan 11, 1964

U.S. Surgeon General Luther Terry
issued the 1st government report
saying smoking may be
hazardous to one's health

(I had quit smoking 10 yrs before
in 1954 when I was 34)

24 JUNE 1964

WARNING LABEL
PUT ON
CIGARETTES

1964

Vietnam War escalates.

1964

Congress passed Civil
Rights Act, outlawing
segregation.

Jan 23, 1964

24th Amendment to U.S. Const.
Abolished poll tax as
requirement for voting
in national elections or
primaries.

July 2, 1964

Pres. Johnson signed into law a sweeping civil rights bill passed by Congress.

July 16, 1964

In San Francisco, Barry M. Goldwater said "extremism in the defense of liberty is no vice" and that "moderation in the pursuit of justice is no virtue."

1964-65

Two Bell Telephone Laboratories scientists, ARNO PENZIAS and ROBERT WILSON, were the first to stumble on the electromagnetic energy from 300,000 yrs after the "Big Bang".
Radiation slightly warmer than the 2.7 Kelvin ave.

1964

Physicist Murray Gell-Mann
(b. 1929) named the quark.
a subatomic particle with
a fractional electric charge
(believed by physicists to be
the fundamental unit of matter)

1964

Genetic explanation offered
for animal altruism

1964

High-yield rice launches
Green Revolution

1964

Excavation of fossils from
1.8 M-yr-old HOMO HABILIS

1964

Idea of QUARKS introduced.

Mar 27, 1964

Alaska was rocked by a powerful earthquake that killed 114 people

Mar. 30, 1964

John Glenn withdrew from
the Ohio race for the
U.S. Senate because of
injuries suffered in a
fall.

Mon 12, 1964

A jury in Dallas found Jack Ruby guilty of murdering Lee Harvey Oswald, the accused assassin of Pres. Kennedy, in Nov. 1963.

Aug 4, 1964

2 U.S. Navy destroyers were
under attack in the Gulf
of TONKIN

1964

The U.S. Congress passed the
Civil Rights Act.

1964

The VW Bug sold for
1,629⁰⁰ new

1964-1972

The amount of sunshine
reaching the ground in the
United States decreased by
1.3 percent between 1964 and
1972

1964

Beatles, English musical group, became huge success in U.S.

June 29, 1964

Congress passed sweeping
civil rights legislation.

June 29, 1964

Congress passed sweeping civil
rights legislation

8 JAN 1964

PRES. LYNDON B. JOHNSON
DECLARED "WAR ON
POVERTY"

Apr. 5, 1964

Gen. Douglas MacArthur died

1964

Hurricane HILDA hit Georgia, La.
Mississippi. 38 died

1964

Brezhnev and Koyger take over
Soviet Leadership.

Sept 8, 1964

I left machine shop and went
to Process Engineering Design

1964

Fall of Khrushchev

1964

Don Hark

Memorial Foundation
for Jewish Culture was
founded.

Mar. 27
1964

Good Fri

Easter was Mar 29

An earthquake equal in force
of 10,000 atomic bombs struck
southern Alaska.

In Anchorage, Fourth St.
was ripped apart by a 30-ft
chasm.

806 on Richter. Strongest fault
ever to hit North America.

50ft-high tsunami wave that
killed 117 and left millions
of dollars in damage

Apr 5, 1964

Gen. Douglas MacArthur died
in Washington D.C. at age 84

1964

Equatorial radius of earth = 6378.388 km
= 3963.34 statute mi

Polar radius of earth = 6356.912 km
= 3949.99 statute mi

At Equator $2\pi R = (2)(\pi)(3963.34)$

Circum. = 24,902.4 statute mi

Circum $(\div 360) = 69.173332$ statute mi

Across poles $2\pi R = 2(\pi)(3949.99) = 24,818.52$ statute mi

Circum $\div 360 = 68.94033$ statute mi

China had bomb by 1964

Israel & India had bomb by 1974